

FIGURE 1

1 aattgtcagc acgggatctg agacttccaa **aaaatga**gc cggcgacagg actttgggtc
61 tgggtgagcc ttctcgtggc ggcggggacc gtccagccca ggcattctca gtcagtgtgt
121 gcaggaacgg agaataaact gagctctc tctgacctgg aacagcagta ccgagccttg
181 cgcaagtact atgaaaactg tgaggttgc atggcaacc tggagataac cagcattgag
241 cacaaccggg acctctcctt cctgcggct gttcgagaag tcacaggcta cgtgttagtg
301 gctcttaatc agttcgtta cctgcctctg gagaatttc gcattattcg tggacaaaa
361 ctatgagg atcgatatgc cttggcaata tttttaact acagaaaaga tggaaacttt
421 ggacttcaag aacttggatt aaagaacttg acagaaatcc taaatggtgg agtctatgt
10 481 gaccagaaca aattccttgc ttatgcagac accattcatt ggcaagatata tggtcgaaac
541 ccatggcctt ccaacttgc tcttgtgtca acaaattgta gttcaggatg tggacgttgc
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721 tgccatcgag aatgtgctgg aggctgctca ggacctaagg acacagactg ctttgcctgc
15 781 atgaatttca atgacagtgg agcatgtgtt actcagtgtc cccaaacctt tgtctacaat
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1261 aacatgactg acttcagttt ttttctaaat ctgggtacca ttgggtggaaat agtactctat
1321 agtggcctgt cttgtttat cctcaagcaa cagggcatca cctctctaca gttccagtc
1381 ctgaaggaaa tcagcgcagg aaacatctat attactgaca acagcaacct gtgttattat
1441 cataccatta actggacaac actttcagc acaatcaacc agagaatagt aatccggac
1501 aacagaaaatg ctggaaaattt tactgtgaa ggaatgggtgt gcaaccatct gtgttccagt
1561 gatggctgtt ggggacctgg gccagaccaa tgcgtgtcgt gtcgccgtt cagtagagga
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1681 tccatctgtg tggagtgtga cccccagttt gagaagatgg aagatggcct cttcacatgc
1741 catggaccgg gtcctgacaa ctgtacaaatg tgctctcatt taaaagatgg cccaaactgt
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1981 actcccctga ttgcagctgg agtaatttgg gggctcttca ttctgttcat tgggggtctg
2041 acatttgcgt tttatgttag aaggaagacg ataaaaaaga aaagagcctt gagaagattc
2101 ttggaaacag agttggtggc accattaact cccagtgca cagcaccacca tcaagctcaa
2161 cttcgatattt tgaaagaaatc tgagctgaag agggtaaaatc tcctggctc aggtgtttt
2221 ggaacggttt ataaaggat tgggttaccc gaaggagaaaa ctgtgaagat tcctgtgct
2281 attaagattt ttaatgagac aactggccc aaggcaaatg tggagttcat ggtgaagact
2341 ctgatcatgg caagtatggc tcatccacac ctgtccggc tgctgggtgt gtgtctgagc
2401 ccaaccatcc agctggttac tcaactttag ccccatggct gcctgttggaa gtatgtccac
2461 gagcacaagg ataacattgg atcacaactg ctgtttaact ggtgttcca gatagctaaag
2521 ggaatgtatgtt acctggaaa aagacgactc gttcatcgaa atttggcagc cctgtatgtc
2581 ttatgtaaaatc ctccaaacca tggaaaatc acagattttt ggctagccag actcttgaa
2641 ggagatgaaa aagagtacaa tgctgttgc gggaaatgtc caattaaatg gatggctctg
2701 gagtttatac attacaggaa attcaccat cagagtgtacg tttggagact tggagttact
2761 atatggaaatc tgatgaccc tggaggaaaa ccctatgtat gatccaaac gcgagaaatc
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2881 tacatggtca tggcaatgc ttggatgatt gatgttgcata gtagaccaa atttaagaa
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3361 accctacgca agccagtgcc accccatgtc caagaggaca gtagcaccacca gaggtacatgt
3421 gctgacccca ccgtgtttgc cccagaacgg agcccaacgg gagagctgga tgaggaaggt
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5 3541 ccttttgtt ctcggagaaa aaatggagac cttcaagcat tggataatcc cgaatatcac
3601 aatgcatcca atggtccacc caaggccgag gatgagtatg tgaatgagcc actgtaccc
3661 aacaccctt ccaacacctt gggaaaagct gagtacctga agaacaacat actgtcaatg
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4021 ctttctctgg tggcttcct tctaccccaa ggcggatgtt tttgacactt cccagtgaa
10 4081 gatacagaga tgcaatgata gttatgtgct tacctaactt gaacattaga gggaaagact
4141 gaaagagaaa gataggagga accacaatgt ttcttcattt ctctgcattt gttggcagg
4201 agaatgaaac agctagagaa ggaccagaaa atgtaaaggca atgtgccta ctatcaaact
4261 agctgtcaact tttttttttt ttcttttctt ttctttgtt ctttcttcct cttcttttt
15 4321 tttttttttt taaagcagat ggttggaaaa cccatgctat ctgttccat ctgcaggAAC
4381 tgatgtgtgc atattttgc tccctggaaa tcataataaa gttttccattt gaacaaaaga
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4501 cagtttctgt cctagcaagt aagaatggcc aactcaactt tcataattt aaaaatctcca
4561 ttaaaatgtt aacttagata tatgtttca acacttttg gttttttca ttttgggg
20 4621 ctctgaccga ttcctttata tttgttttttgc ttttttttttca aatttttttca aatttgcgg
4681 atgtttcatat caaagcttct tcacagaatt taagcaagaa atatTTTaaat atagtggaaat
4741 ggccactact ttaagtatac aatctttaaa ataagaaagg gaggtcaataa ttttttcatgc
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5041 gcacttaaggc tgtaattttt tttgttctt ttctgtactc cattttggat tttgaatcaa
5101 gcaatatggaa agcaaccaggc aaatttacta atttaagtac atttttttttt aaaaagactaa
5161 gataaaagact gtggaaatgc caaaccaaggc aaatttagggaa ctttgcacgg gtatccagg
5221 actatgatga gaggccagca cattatcttcc atatgtcacc tttgttacgc aaggaaattt
5281 gttcgttccg tataacttgcg aagaagggat gcgagtaagg attggcttgc attccatgg
5341 attttcttagta tgagactatt tatatgaagt agaaggtaac tctttgcaca taaaattggta
5401 taataaaaag aaaaacacaa acattcaaag ctttagggata ggtccttggg tcaaaaagg
5461 taaataaaatg tgaaacatct ttc

FIGURE 2

MKPATGLWWVSVLLVAAGTVQPSDSQSVCAGTENKLSSLSDLEQQYRALRKYYENCEVMGN
LEITSIEHNRDLSFLRSVREVTGYVLVALNQFRYLPLENLRIIRGKLYEDRYALAIFLNYR
5 KDGNFGLQELGLKNLTEILNGGVYVDQNKFCLCYADTIHWQDIVRNPWPSNLTLVSTNGSSGC
GRCHKSCTGRCWGPTEHCQLTRTVCAEQCDGRCYGPyVSDCCRECAGGCSGPDTDCFA
CMNFNDSGACVTQCPQTFVYNPTTFQLEHNFNAKYTYGAFCVKKCPHFVVDSSCVRACPS
SKMEVEENGIKMCKPCTDICPKACDGIGTGSMSAQTVDSSNIDKFINCTKINGNLIFLVTG
10 IHGDPYNAIEAIDPEKLNVFRTVREITGFLNIQSPPNMTDFSVFSNLVTIGGRVLYSGLSL
LILKQQGITSLQFQLKEISAGNIYITDNSNLCYHTINWTTLFSTINQRIVIRDNRKAENC
TAEGMVCNHLCSSDGCWGPDPQCLSCRRFSRGRICIESCNLYDGEFREFENGSICVECDPQ
CEKMEDGLLTCHGPDPNCTKSHFKDGPNCVEKCPDGLQGANSFIFKYADPDRECHPCHPN
CTQGCNGPTSHDCIYYPWTGHSTLPQHARTPLIAAGVIGGLFILVIVGLTFAVYVRRKSIKK
15 KRALRRFLETELVEPLTPSGTAPNQAQLRILKETELKRVKVLGSGAFGTVYKGIWVPEGETV
KIPVAIKILNETTGPKANVEFMDEALIMASMDHPHLVRLLGVCLSPTIQLVTQLMPHGCLLE
YVHEHKDNIGSQLLNWCVQIAKGMMYLEERRLVHRDLAARNVLVKSPPNVKITDFGLARLL
EGDEKEYNADGGKMPIKWMALECIHYRKFTHQSDVWSYGTIWELMTFGGKPYDGIPTREIP
DILLEKGERLPQPPICTIDVYMMVKCWMIDADSRPKFKELAAEFSRMARDPQRYLVIQGDDR
20 MKLPSPNDSKFFQNLDEEDLEDMMDAEEYLVHQAFNIPPPIYTSRARIDSNRSEIGHSPPP
AYTPMSGNQFVYRDGGFAAEQGVSPYRAPTSIPEAPVAQGATAEIFDDSCCNGTLRKPVA
PHVQEDSSTQRYSADPTVFAPERSPRGELDEEGYMPMRDKPKQEYLNVEENPFVSRRKNG
DLQALDNPEYHNASNNGPPKAEDEVNEPLYLNTFANTLGKAEYLKNNILSMPEAKKAFDNP
DYWNHSLPPRSTLQHPDYLQEYSTKYFYKQNGRIRPIVAENPEYLSEFSLKPGTVLPPPYR
HRNTVV

FIGURE 3

ccaatcgattcgcggcaaagacccctccggctggaccagctgctcgagcagtcatgtgtgcagga
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aaactgtgagggtgtcatggcaacctggagataaccagcattgagcacaaccgggacctcccttc
5 tgccgtctttcgagaagtacaggctacgtgttagtggcttaatcagttcgatctgcctctg
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gtggagtctatgttagaccagaacaaaattccttgcgatgcagacaccattcattggcaagatattgtt
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tccagtgtggctgttggggacctggccagaccaatgtctgtcgatgcgccttgc
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gcaccccaagggtgtacggccactagtcatgcatttactaccatggac
35 ggggacacatgcattgcattgcattgcattgcattgcattgcattgcatt
aaaactcacatgcattgcattgcattgcattgcattgcattgcattgcatt
cccaaaaccaaggacaccctcatgtatcccgacccctgaggatc
40 ggcacgaagaccctgaggatcaagttcaactggatcgtggacggcgtgg
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tgctggactccgacggctcatttc
ggaaacgtttctcatgc
cctgtctccggtaat

FIGURE 4

QSVCAGTENKLSSLSDEQQYRALRKYDYECEVVMGNLEITSIEHNRDLSFLRSVREVTGYV
LVALNQFRYLPLENLRIIRGTKLYEDRYALAIFLNYRKDGNGLQELGLKNLTEILNGGVYV
5 DQNKFCLCYADTIHWQDIVRNPPWSNLTLVSTNGSSGCRCHKSCTGRCWGPTEHCQTLRT
VCAEQCDGRCYGPYVSDCCHRECAGGCSGPKDTCFACMNFDGACVTQCPQTFVYNPTTF
QLEHNFNAYTYGAFCVKKCPHFVVDSSCVRACPSSKMEVEENGIKMCKPCTDICPKACD
10 GIGTGSLMSAQTVDSSNIDKFINCTKINGNLIFLVTGIHGDPYNAIEAIDPEKLNVFRTVRE
ITGFLNIQSWPPNMTDFSVFSNLVTIGGRVLYSGSLLILKQQGITSLQFQLKEISAGNIY
ITDNSNLCYYHTINWTLFSTINQRIVIRDNRKAENCTAEGMVCNHLCSSDGCWGPGPDQCL
SCRRFSRGRICIESCNLYDGEFREFENGSI CVECDPQCEKMEDGLLTCHGPGPDNCCKSHF
KDGPNCVEKCPDGLQGANSFIFKYADPDRECHPCPNCTQGCNGPTSHDCIYYPTWG

15

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Figure 4: A sequence of amino acids (aa) from a protein. The sequence starts with QSVCAGTENKLSSLSDEQQYRALRKYDYECEVVMGNLEITSIEHNRDLSFLRSVREVTGYV and ends with KDGPNCVEKCPDGLQGANSFIFKYADPDRECHPCPNCTQGCNGPTSHDCIYYPTWG. The sequence is presented in three blocks, each starting with a line number (5, 10, or 15). The sequence is preceded by a vertical line of zeros.

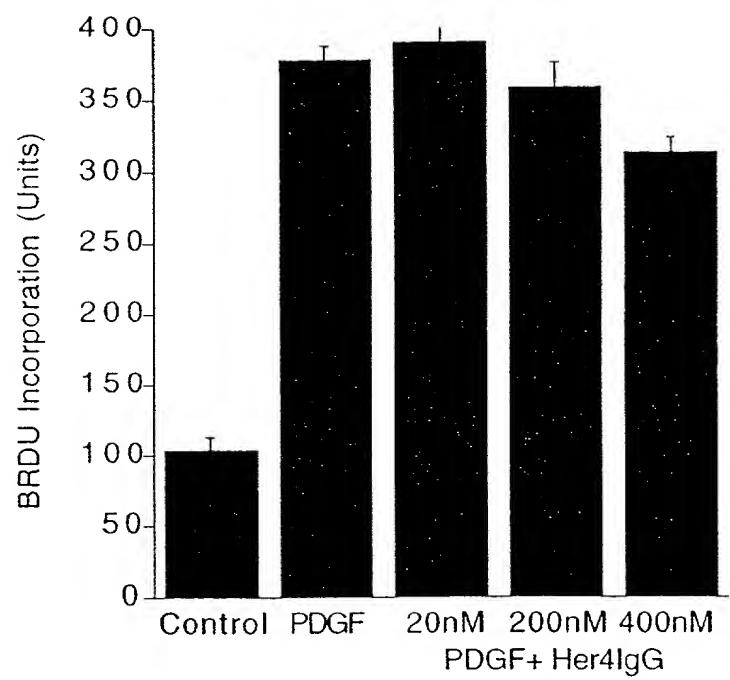


FIG. 5

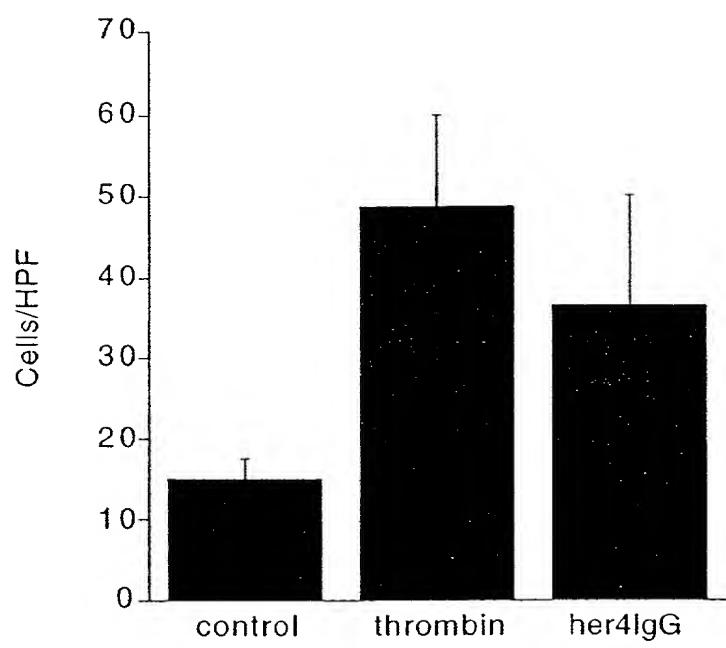


FIG. 6

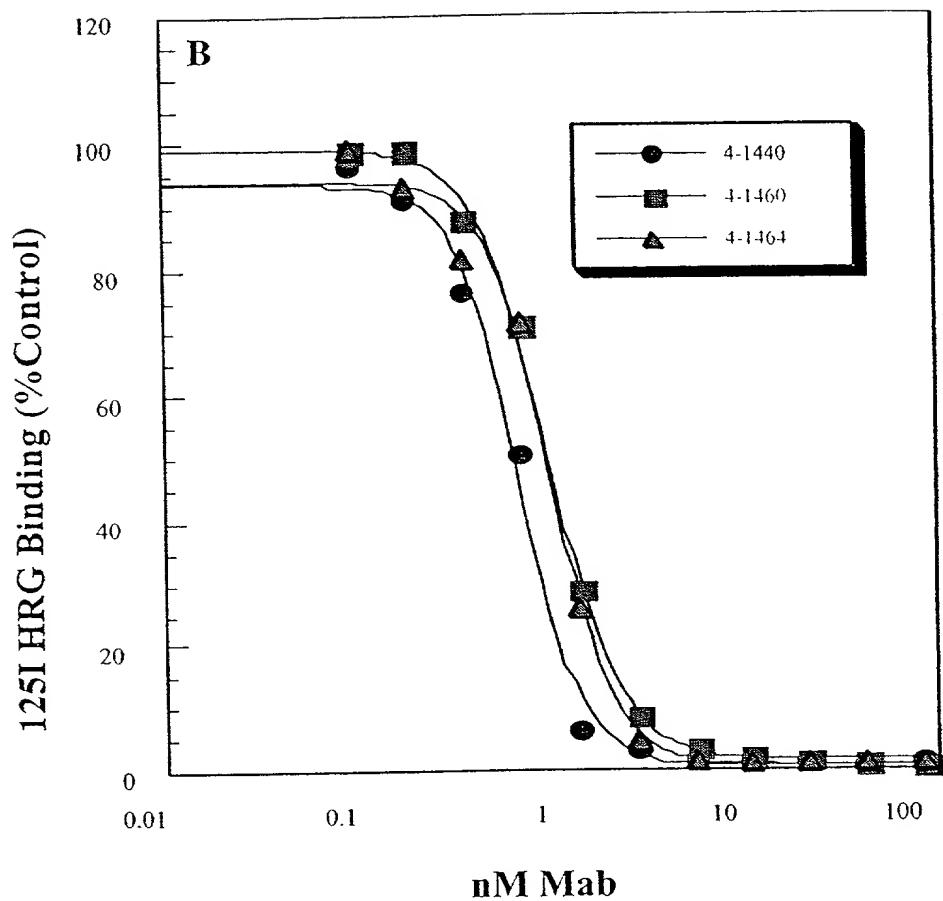


FIG. 7